

underlined = deleted in targeting construct

**BOLD** = sequence flanking Neo insert in targeting construct

CGCCTGTGCCCTCTGCCTGGGAGCCTGGGGCCGCCTGTCTGCGCGGTCCGGATGCGCTCAGGTCAAGGTTCCCT  
 TTCGCGGCTGTCTCCCAAGCCCCCTAACTAGTGACTTCCACTGTGGCGGGCAGGGAAGCCATTGGCAGAACCTA  
 GCCAGTCAGGAATCTGCATCTCTTCCCTCATTAATCCTCTCCCTGGCATTGCTTTGCTCGGGTCCAGCTCAGTT  
 GGTGACGCGGGCCCCCTTCTCCCCAGGTTGGGATCCACGGAAGCAGGGGTGCAGGCCGGCCAGGCACTGTGCCAT  
 GAGCCAGAGCCCCGAGGTTTCGTGACCCGGAGGGGCGGCTCTCTAAAGGCTGCCCTTGGAGCCGGCACCCGGCGC  
 AACGAGAGCCAGGACTATTTGCTGATGGACGAGCTGGGAGACGACGGCTACCCGCAGCTCCCGCTGCCACCGT  
 ATGGCTACTACCCAGCTTCCGGGGTAATGAAAACAGACTGACTCACCGCGGCAGACGATTCTTCGTGAGAA  
 GGAAGAAGGTTAGCTAATCGAGGACCAGCATACATGTTTAATGATCATTCAACAAGCCTGTCTATTGAGGAA  
 GAACGCTTTCTAGATGCAGTTGAATATGGCAACATCCAGTGGTCTGGAAGATGCTAGAAGAGTGTATTCCC  
 TCAATGTTAACTGTGTGGATTACATGGGCCAGAATGCCCTACAGCTGGCTGTGGCCAATGAGCACTTGGAAAT  
 CACAGAGCTGCTACTCAAGAAGGAAAACCTTGTCTCGAGTTGGGGATGCTTTACTTTTAGCCATTAGTAAAGGT  
 TATGTACGGATTGTGGAGGCAATCCTCAACCATCCATCTTTTGTCTGAAGGCAAAAGGTTAGCGACAAGCCCCA  
 GCCAGTCTGAACCTCAGCAAGATGACTTTTATGCTTATGATGAAGATGGGACGCGGTTCTCCCATGATGTGAC  
 TCCAATCATTTCTCGTGCACATTGCCAGGAATATGAAATTTGTGCATACCTCCTGAGAAAGGGTGGCCGGATT  
 GAGCGGCTCATGATTACTTCTGCAAGTGTACAGAATGCAGCCAGAAGCAGAAGCATGATTCTTCAGCCACT  
 CTAGATCCAGGATCAATGCATACAAAGGTCTGGCAAGTCCAGCATACCTGTCATTGTCCAGTGAAGATCCAGT  
 CATGACTGCTTTAGAACTTAGCAATGAGCTGGCAGTGCTTGCCAACATTGAGAAAGAGTTCAAGAATGACTAC  
 AGGAAGCTGTCTATGCAGTGAAGGATTTCTGTTGTTGGTCTCTTGGACCTCTGCAGAAACACAGAGGAAGTGG  
 AGGCCATCCTGAATGGGGATGCAGAGACTCGCCAGCCCGGGGACTTCGGCCGTCCAAATCTCAGCCGTTTAAA  
 ACTTGCTATTAAGGATGAAGTAAAAAAATTTGTGGCTCATCCAACTGTCTAGCAACAGCTCCTGTCCATATGG  
**TATGAGAACCCTCTCTGGTTTACGGCAGCAGACCATGGCAGTGAAGTTCCCTCGTGGTCTTGTGCTGTTGCCATTG**  
**GATTGCCCTTCTTGGCTCTCATATACTGGTGTGCTCCTTGCAGCAAGATGGGGAAGATATTGCCGAGACCGTT**  
 CATGAAGTTTGTAGCACACGCAGCCTCCTTACCATTTCCTGGGGCTGCTCGTCATGAATGCAGCTGACAGA  
 TTTGAAGGCACCAAGCTCCTCCCTAATGAAACAGCACAGATAATGCAAGGCAGCTGTTTCAGGATGAAAACAT  
 CCTGTTTCTCATGGATGGAGATGCTCATTATATCTTGGGTAATAGGCATGATATGGGCTGAATGTAAAGAAAT  
 CTGGACTCAAGGCCCCAAAGAATACTTATTTGAGTTGTGGAATATGCTTGACTTTGGAATGCTGGCAATCTTT  
 GCAGCATCATTATTGCAAGATTTATGGCGTTCTGGCATGCATCCAAAGCTCAGAGCATCATTGATGCAATG  
 ATACTTTAAAGGATTTGACAAAAGTCACACTGGGGGACAACGTTAAATACTACAATCTGGCCAGGATAAAGTG  
 GGACCCTACTGATCCTCAGATCATCTCTGAAGGTCTTTATGCAATCGCTGTGGTTTTAAGTTTCTCCAGAATA  
 GCTTACATTTTACCAGCAAATGAAAGCTTTGGACCTCTGCAGATTTCACTTGGAAGAACAGTGAAAGATATCT  
 TCAAATTCATGGTCATATTCATCATGGTGTGTTGTAGCCTTTATGATTGGAATGTTCAACCTTTACTCCTACTA  
 CATTGGCGCAAAACAGAATGAAGCATTCACAACAGTTGAGGAAAAGTTTTAAGACACTGTTCTGGGCTATCTTT  
 GGTCTTTCTGAAGTGAAGTCAGTGGTCATTAACACAATCACAAGTTCATTGAAAACATCGGCTACGTTCTGT  
 ATGGTGTCTATAATGTCACAATGGTCATTGTTTTGCTAAATATGTTAATTGCGATGATCAATAGTTTATTCCA  
 GGAAATTGAGGATGATGCGGACGTGGAGTGAAGTTTGCAAGGGCCAAATTTGTGGTTTTCTTACTTTGAGGAG  
 GGGAGAACACTTCCTGTCCCCTTCATCTTGTACCAAGTCCAAAATCCTTGCTTTATCTCCTATTGAAATTTA  
 AGAAATGGATGTGTGAGCTCATCCAGGGTCAAAAAGCAAGGCTTCCAAGAAGATGCAGAGATGAACAAGAGAAA  
 TGAAGAAAAGAAATTTGGAATTTCAAGGAGTCACGAAGACCTTTCAAATTTTCACTTGACAAAATCAGTTG  
 GCACACAACAAACAATCAAGTACAAGGAGCTCAGAAGATTATCATTTAAATAGTTTCAGTAACCCCTCCAAGAC  
 AATATCAGAAAATCATGAAGAGACTCATTAAGATATGTATTGAGGCCAGATTGATAAGGAGAGCGATGA  
 GGTGAATGAAGGGGAATTGAAGGAAATTAAGCAAGACATCTCAAGTCTCCGTTATGAACCTTGAAGAGAAA  
 TCACAGAATCAGAAGACCTAGCAGAGCTCATTAGAAAACCTCGGGAGAGACTGTCGTTAGAGCCAAAGCTGG  
 AGGAAAGCCGCAGATAGAGCAGAGCCCCTCAGAAGTGCATATTTATTTCTCCACTTGAAGCCATATTATTTTC  
 TGACTTATTTTTTTAAGTGTCATGATAAAAAGTATGTTAACTGATAACTTGGATCATTTAGAGTCCTAATAT  
 CAAGCTTTTGGGAGATTAAATTGCATTGCTGAGGGCTAACAATTGCTG (SEQ ID NO:1)

**FIGURE 3**